Mountain Weather Forecast

Peak District National Park

Forecast valid from 06:00 on Monday 11 Sep 2023 until 23:59 on Tuesday 12 Sep 2023

Forecast Issued on Monday 11 Sep 2023 at 03:46

Confidence: High for a breakdown of the very warm and humid weather and a transition to cooler, fresher and more unsettled conditions through the period. Moderate for the details surrounding thundery outbreaks Sunday night and Monday, and for the timing and extent of frontal rain Tuesday and Thursday.

Headline for Monday 11 Sep 2023: A dull start with showers soon breaking out including some heavy, thundery downpours. Showers giving way to a more organised band of cloud and rain later.

Mountain weather hazards on Monday 11 Sep 2023

Blizzards
No Likelihood

Gales
No Likelihood

Thunderstorms
Medium Likelihood

Heavy persistent snow
No Likelihood

Severe chill effect
No Likelihood

Heavy persistent rain
Medium Likelihood

Storm force winds
No Likelihood

Poor visibility
Medium Likelihood

Strong sunlight
Low Likelihood

Weather and chance of precipitation at 600m					
Time					
06:00	09:00	12:00	15:00	18:00	21:00
Cloudy	Drizzle	Heavy rain showers	Thundery showers	Cloudy	Light rain
Precipitation probability					
20%	30%	40%	40%	20%	40%

Forecast for Monday 11 Sep 2023

Weather: Early low cloud and valley mist and fog patches will gradually clear Monday morning to some limited bright or sunny spells. Showers then likely breaking out later Monday morning, with a risk of further afternoon heavy showers and thunderstorms. Cloud thickening from the northwest into the evening, before a further band of showery rain arrives, most likely overnight.

Chance of cloud-free hill tops above 600m: 20% at first, improving to 90% by the afternoon. Falling to 40% in the western Peaks by midnight.

Low cloud and visibility: Areas of cloud at 300m, mainly affecting western ranges. Cloud breaking and lifting clear of most hills by the afternoon, perhaps some scraps lingering to obscure the highest tops. Best of the cloud breaks towards Chesterfield. Bases briefly lowering in the vicinity of heavy or prolonged showers to around 500m. During the evening, cloud bases lowering from the northwest to around 500m as rain approaches. Very poor visibility in early mist and fog, improving to good outside of rain, but still slightly hazy. Moderate or poor visibility in showers or heavy downpours later.

Check our weather forecast every day to get the most accurate and up to date information
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Mountain Weather Forecast

Forecast for Monday 11 Sep 2023

Height (m)	Wind Speed mean/gusts (mph) Wind Direction (blowing from)						
	06:00	09:00	12:00	15:00	18:00	21:00	00:00
600	17/21 SW	20/25 SW	17/23 SW	13/18 W	11/15 W	6/9 W	6/8 W
300	13/19 SW	15/20 SW	13/18 SW	10/14 W	8/11 W	4/6 NW	4/6 W
Valley	8/17 SW	10/18 SW	8/17 SW	8/14 W	6/12 W	2/5 NW	3/5 NW

Height (m)	Temperature / Feels Like (°C)						
	06:00	09:00	12:00	15:00	18:00	21:00	00:00
600	15/12	14/11	15/12	15/13	14/12	12/11	12/11
300	16/15	17/14	18/16	17/16	16/15	15/14	14/14
Valley	17/16	18/16	18/18	18/17	16/16	15/15	14/15
Freezing Level*	3000m	3000m	3100m	3100m	3300m	3300m	3000m

**Level above which ground is expected to be frozen/snow is expected to settle.*

Meteorologist's View

Conditions have the potential to become very poor in thunderstorms, with lightning and hail. Heavy downpours may lead to swollen watercourses and slippery surfaces. Navigation likely to be challenging at times given banks of low cloud.

Recent rainfall: measured at Cat & Fiddle: altitude 511m

Recorded at	Last 24 hours:	Last 48 hours:	Last 72 hours:
02:00 on Mon 11 Sep 2023	0mm	4mm	4mm

Forecast for Tuesday 12 Sep 2023

Weather: Overnight rain will be slow to clear to the east Tuesday morning and may persist in the east until mid-afternoon. Drier, and fresher conditions gradually becoming established from the west, with some bright or sunny spells in the northwest. Low cloud persisting across some hills with a chance of drizzly outbreaks. Showery rain may linger in the southeast with the best of the brightness in western ranges during the afternoon.

Maximum wind: North 10-15 mph, gusting 25 mph.

Chance of cloud-free hill tops above 600m: 30%, improving to 70% from the west through the afternoon.

Low cloud and visibility: Widespread low cloud during the morning, bases around 500m. Improving from the west as rain clears with bases largely lifting above tops, although there remains low confidence in timings. Visibility will be poor in overnight rain and any drizzle, improving to good or very good through the afternoon.

Temperature: **Valleys:** Plus 15 Celsius.
At 600m: Plus 13 Celsius, falling after sunset to around Plus 9 Celsius.
Freezing level: Well above tops.

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